

## Progress Report 4/22/16-9/30/16

### Project #15-1174, Goodell Creek Restoration Feasibility

Submitted by Rick Hartson on 10/26/2016

Accepted by Marc Duboiski on 10/27/2016

#### CONTACTS

**Primary Sponsor:** Upper Skagit Indian Tribe

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**Lead Entity:** Skagit Watershed Council LE

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**Managing Agency:** Rec. and Conserv. Office

**RCO Grant Manager:** Marc Duboiski  
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#### COSTS TO DATE

**Project Start Date:** 12/09/2015

**FundingEnd Date:** 05/01/2017

<b>Funding Formula:</b>	<b>Requested</b>		<b>Original</b>		<b>Current</b>	
Puget Sound Acq. & Restoration:	\$0.00	(0%)	\$228,250.00	(84%)	\$228,250.00	(84%)
Salmon State Projects:	\$228,250.00	(84%)	\$0.00	(0%)	\$0.00	(0%)
Sponsor Match:	\$43,850.00	(16%)	\$43,850.00	(16%)	\$43,850.00	(16%)
<b>Total:</b>	<b>\$272,100.00</b>	<b>(100%)</b>	<b>\$272,100.00</b>	<b>(100%)</b>	<b>\$272,100.00</b>	<b>(100%)</b>

**Paid To Date:** \$44,391.25 *includes pending billings*

**Last Released Billing:** 08/08/2016

**Remaining RCO Funds:** \$183,858.75

**Pending Billing:** Yes

**Advance Balance:** \$0.00

**Match Bank:** \$22,026.91

**Number of Billings:** 2

**Admin Limit:** \$0.00

**Admin Spent:** \$0.00

**A&E Limit:** \$0.00

**A&E Spent:** \$0.00

## PROGRESS REPORT QUESTIONS

#	Question	Answer	Answer Description
1 of 5	Are there any significant challenges that might hinder progress or keep you from meeting your project milestones? If so, please tell us about them.	Yes	Cultural Resources permitting for the digging of groundwater wells took longer than expected. We had expected to install wells during summer base flow in 2016, which would have allowed us to assess low flow conditions before developing our final report. The delay has pushed well installation back to October 2016. To include summer base flow in our analysis and planning, we will need to push the project end date to fall 2017 or winter 2018 so that we can collect low flow groundwater data and incorporate into the final analysis and report.
2 of 5	Describe the work accomplished during this reporting period.		First step was to develop a contract with our consulting firm, Herrera Environmental Consultants, Inc. We then convened the Project Team (WSDOT, NPS, SCL, USIT) for a kickoff meeting to discuss the desired analyses and goals of the planning study. With a successful kickoff meeting and agreement on an approach to the study, USIT, Herrera, and various Project Team members coordinated and began collecting data. Data collection included alluvial fan geomorphic field assessment, hazard and risk field assessment, topographic survey, levee contaminant investigation, stream level sensor installation, stream discharge measurements, alluvial fan habitat survey, alluvial fan fish use survey, and upstream fish use survey. We also spent time planning and permitting for the groundwater installation scheduled for October 2016. With the permit delay and expected extension of the agreement end date, we decided to conduct the funding strategy discussions starting in fall 2016 or winter 2017, so this effort has not yet begun.
3 of 5	Do you anticipate any changes to your project? Please describe those changes here.	Yes	Groundwater monitoring will not begin until October 2016 (originally planned for August 2016 to capture base flow period). We anticipate extending the data collection period to August 2017 so we can document summer base flow conditions on the alluvial fan project site.
4 of 5	Tell us about work planned for the next reporting period.		Groundwater well installation is planned for October 2016. We will periodically download stream level sensor and groundwater piezometer sensors, as well as measure stream discharge during a variety of flow events and then develop a stage-discharge curve for Goodell Creek. We will conduct alluvial fan habitat and fish use surveys during a moderately high flow event to understand current and potential floodplain and side channel conditions. We will continue conducting Chinook redd surveys, and will consider collecting environmental-DNA samples to assess upstream salmonid presence. We will also consider conducting additional Steelhead redd surveys in spring 2017. We also expect to begin discussions related to long-term funding, including National Highway funds. We will continue general coordination among the Project Team and Herrera; we will continue to process and analyze the data and field survey results, though much of the effort to synthesize analyses and develop planning will begin in earnest during the following reporting period after we have begun to collect low flow data.

5 of 5	Do you anticipate you will need to request an amendment to your project agreement in the next six months (time extension, cost change, scope change, etc.)? If yes, please explain:	Yes	With this progress report, we are requesting an extension of the agreement end date, as well as later dates for several of the milestones. This will allow us to measure groundwater and flow data for an entire year, including the critical summer base flow period. Without hydrologic data during summer base flow, our analysis would be limiting, particularly related to floodplain channel function and the potential for lost surface expression due to hyporheic exchange.
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MILESTONES

Milestone	Target Date	Description	Completed	Delayed	New Target Date	Progress/Reason for Delay
Data Gathering Started	12/01/2015		X			
Project Start	12/09/2015		X			
RFP Complete/Consultant Hired	05/15/2016		X			
Annual Project Billing	07/31/2016	Sponsor will be billing quarterly.	X			
Progress Report Submitted	10/31/2016		X			
Cultural Resources Complete	10/31/2016	Performed by NPS and USIT.	X			
Progress Report Submitted	02/01/2017			X	04/30/2017	Allow six months between progress reports. May need additional report due October 31, 2017.
Draft Design to RCO	03/01/2017	Draft Conceptual Design, as described in RCO Manual #18, Appendix D-1.		X	08/31/2017	Allow full year of hydrologic data collection
Special Conditions Met	05/01/2017	SRFB Review Panel requirements.		X	11/30/2017	Allow full year of hydrologic data collection
Final Design to RCO	05/01/2017	Final Conceptual Design, as described in RCO Manual #18, Appendix D-1.		X	11/30/2017	Allow full year of hydrologic data collection
Agreement End Date	05/01/2017			X	11/30/2017	Allow full year of hydrologic data collection
Final Report in PRISM	08/01/2017			X	02/28/2018	Allow full year of hydrologic data collection
Final Billing to RCO	08/01/2017			X	02/28/2018	Allow full year of hydrologic data collection

PERMITS

Type	Applied Date	Received Date	Expiration Date	Permit Number	Comments
Water Rights/Well Drilling Permit	04/16/2016	9/21/2016	3/31/2017	Approval Letter	WAC 173-160-420 variance
Hydraulics Project Approval [HPA]	08/17/2015	8/17/2015	8/15/2020	2015-4-623+01	Installation of instream pressure transducer and housing
Shoreline Permit	08/12/2016	10/24/2016	10/24/2021	SHX2016-00104	Whatcom County Shoreline exemption
Cultural Assessment [Section 106]	07/15/2016	10/20/2016	12/31/2016	PEPC 58141	Well installation approval
Other Required Permits	07/13/2016	7/15/2016	12/31/2021	MBA-1612-WH/	WSDOT General Permit - right of way entry
Other Required Permits	01/01/2016	1/1/2016	12/31/2016	NCCO-00019	NPS Scientific Research and Collecting Permit